

# Hand Held

## Compact "Air-Cooled" Fiber Laser Welding PRC A1500-A2000



### Welding Processing limit

Laser Power	Mild Steel	Stainless Steel	Aluminum	Brass	Red copper
1500W	5mm	5mm	4mm	4mm	2mm
2000W	6~7mm	6~7mm	5~6mm	5mm	3mm

### Product Specifications

Output power	1500W/2000W	Wobble Width	0-5mm
Voltage Input	220VAC/50Hz/60Hz	Wobble Freq.	0-300HZ
Dimension	650x300x621[mm](L×W×H)	Build-in programs	55 programs
Weight	62kg	Avg. Elec power	< 5700/4650W

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### Applications

Used in welding of hardware, home appliances, furniture, kitchen & sanitary ware, batteries, lighting equipment, door & window guardrails, elevators, medical equipment, electrical cabinets, etc...



Metal Furniture



Electrical Cabinet



Elevator Manufacturing



Door/Window Guardrail



Battery Welding



Kitchenware



Light & Decoration

### Welding Samples



Stainless Steel Welding



Aluminum Welding



Mild Steel Welding



Pipe Construction Welding



Exhaust Welding



Construction Welding

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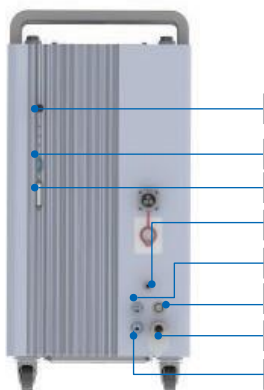
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### Control panel and Interface

All interfaces are uniformly arranged on the backside of the laser, clearly marked to facilitate quick start. Fiber delivery cable, gas pipes and control cables are pre-assembled into the protective cable harness (5m/10m).

Plug in AC power supply, insert the protective gas pipe, set the parameters, and fix the work-piece to be processed, and the laser welder will be ready to operate.

Advanced parameter setup can be accessed through Ethernet /WIFI, for fine adjustment and saving the parameters.



- WIFI
- RS232 (DB9)
- Interface (DB25)
- Safety lock
- Gas input
- Welding head cable
- Fiber delivery cable
- Gas output



- Exhaust fan
- SS handle
- Power Key switch
- Status LED
- E-stop Button
- Air filter



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### Packing List and Optional Accessories

Power cable	QBH delivery	Wire feeder ( Optional )
Laser welder body	cable(5m/10m) Handheld	Welding helmet (Optional)
User Manual	Welding gun Welding nozzles 5 types	Goggles (Optional )



**Automatic Wire Feeder**

#### Welding Nozzles for different welding application



The welding gun has been developed with an ergonomic design, for smooth and easy operation. Suitable for continuous welding operations with high quality and safety!

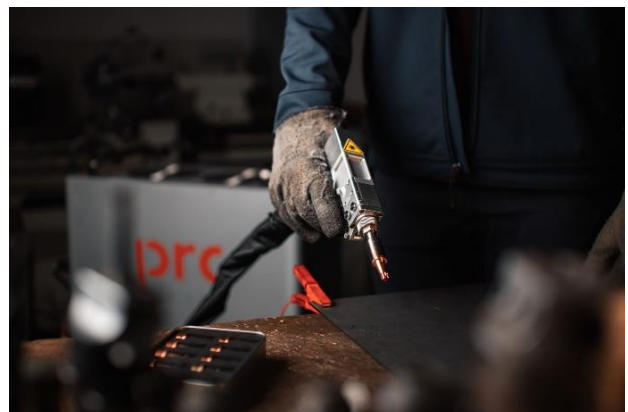
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## Compact "Air-Cooled" Fiber Laser Welding PRC A1500-A2000

PRC Laser Welding Helmet with Double Safety Interlock  
&  
Eye-safe protection for Fiber laser wavelength & IR + UV light



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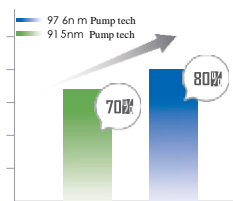
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### Six Important Advantages!

#### Higher Efficiency

Independent intellectual property rights 976nm high-brightness single-module laser technology, and New “Air-cooled” technology platform architecture with active refrigerant type heat dissipation!



Optical-Optical



Air-cooled tech platform

#### Ultra-Compact & Fully Portable, Easy to carry

\*Compared to water-cooled hand-held laser welders, this system is extremely more compact - **about 75% smaller** and **roughly 70% lighter**. The result is a truly portable tool.

\*Its ultra-light and ergonomic design **doubles the range of mobile applications**, makes transport effortless, and ensures reliable operation in all working environments.

\*Just pick it up, connect to any **220V power source**, and you’re ready to weld.



Effortless Loading. Maximum Portability.

#### Easy to Operate

**Integrated operator's touchscreen control with preset parameter library, wobble modes, automatic shielding gas control, and safety functions.**

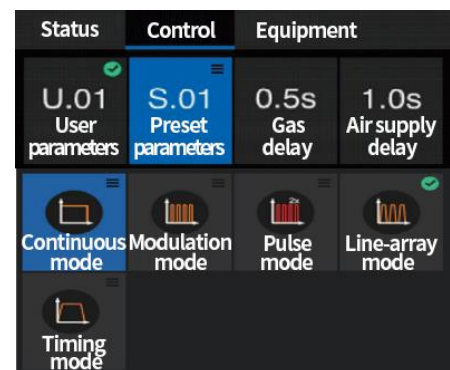
New operators can get started quickly - unlike traditional welding equipment, this system requires **no long training period or years of experience**. With just a few hours of instruction, novice welders can achieve stable, high-quality results.

\*Includes **55 preset welding parameters**, covering the most commonly used combinations of materials and thicknesses.

Operators can instantly select the optimal settings for each job, ensuring consistent performance.

\*All parameters are adjusted through an **intuitive touch panel**, making operation simple and clear.

\*Custom settings can also be created and saved, allowing users to tailor the machine to their specific applications



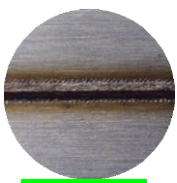
55 built-in presets & customizable sets

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### Better performance

Delivers superior welding quality across different materials and thicknesses — without distortion, undercut, or burn-through. The process is smooth, producing a clean, attractive weld with **deep penetration, no deformation, and no need for post-processing.**



SS stitch welding



SS welding



Copper stitch welding



Copper welding



Alu stitch welding



Alu welding

### Improved Processing Efficiency

Compared with traditional welding methods, this system delivers an **unmatched speed advantage**, in some applications, productivity can be **up to 10× higher** than conventional processes. It produces smooth, uniform welds and visually appealing, with **no deformation**, which significantly increases the **first-pass yield** of the workpiece. With minimal to zero spatter, the need for subsequent grinding and polishing is greatly reduced. This boosts production efficiency, lowers material waste, and reduces overall workpiece cost.



TIG/MIG/STICK



LASER Welder

### Enhanced Safety Features

The laser welder is classified as a **Class IV laser product**, and multiple safety mechanisms are integrated to ensure secure operation:

- **Key switch and emergency stop button** provide controlled access and immediate shutdown capability.
- **QBH interlock** guarantees the integrity of the laser transmission path.
- **Status-indicating LED lighting** allows operators to clearly see the equipment’s operating state.
- **Workpiece, welding gun, and helmet interlocks** ensure safe operation at all times. The laser automatically disables when the welding gun is not in contact with the workpiece and/or when the operator’s helmet is not properly worn.

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